## Program/Major or Minor/Concentration Revision Form

(07/2004)

### 1.0 Degree Title
Specify the two degrees for concurrent degree programs

1. Ph.D.

### 1.2 Concentration (Legacy = Concentration/Option)
If applicable (30 char. max.)

### 1.3 Minor (with Concentration, if applicable)
(30 char. max.)

### 1.4 Category

<table>
<thead>
<tr>
<th>Faculty Program (FP)</th>
<th>Honours (HON)</th>
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<tr>
<td>Major</td>
<td>Joint Honours</td>
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<td>Joint Major</td>
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<td>Major Concentration (CON)</td>
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<td>Minor Concentration (CON)</td>
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<td>Other</td>
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### 1.5 Complete Program Title
Doctor of Philosophy (Ph.D.); Earth and Planetary Sciences

### 2.0 Administering Faculty/Unit
Graduate and Postdoctoral Studies

### 3.0 Effective Term of revision or retirement
Please give reasons in 5.0 “Rationale” in the case of retirement
(Ex. Sept. 2004 = 200409) Retirement

Term: 201409

### 4.0 Existing Credit Weight

Proposed Credit Weight

### 5.0 Rationale for revised program

Two revisions are proposed for our Ph.D programs:

1. After much consideration we decided that requiring students entering in the Ph.D. program at year 1 (Ph.D.1) should only have to take the same number of course credits as the sum of course credits required for M.Sc. students, 12 credits, and students entering the Ph.D. program at year 2 (Ph.D.2), 6 credits, for a total of 18 credits. This revision balances the credit requirements for students entering at the Ph.D.1 level with those of students who obtain both an M.Sc. followed by a Ph.D. degree in our department.

2. We no longer wish to require Ph.D. students to take EPSC 666 (Current Issues in Geosciences) because we have found that the goal of this course is better served by students attending departmental seminars by outside speakers whose areas of knowledge often extend to other subdisciplines of geoscience beyond those within the department, thus giving the students a better introduction to current issues in geoscience. The complementary courses have been raised accordingly.

### 6.0 Revised Program Description (Maximum 150 words)

No change from what is currently written in the graduate calendar.
7.0 List of existing program and proposed program

Existing program (list courses as follows: Subj Code/Crse Num, Title, Credit weight, under the headings of: Required Courses, Complementary Courses, Elective Courses)

Proposed program (list courses as follows: Subj Code/Crse Num, Title, Credit weight, under the headings of: Required Courses, Complementary Courses, Elective Courses)

29.11.5.7 Doctor of Philosophy (Ph.D.); Earth and Planetary Sciences
Highly qualified B.Sc. graduates may be admitted directly to the Ph.D. 1 year. Students with the M.Sc. degree are normally admitted to the Ph.D. 2 year. Students are required to take six graduate-level courses in the Ph.D. 1 year, and two courses plus a comprehensive oral examination in the Ph.D. 2 year.

Thesis
A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must show familiarity with previous work in the field and must demonstrate ability to plan and carry out research, organize results, and defend the approach and conclusions in a scholarly manner.
The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrate how the research advances knowledge in the field.
Finally, the thesis must be written in compliance with norms for academic and scholarly expression and for publication in the public domain.

Required Courses
EPSC 666 (3) Current Issues in Geosciences
EPSC 700 (0) Preliminary Doctoral Examination

Complementary Courses
One to seven courses approved at the 500, 600, or 700 level selected in consultation with the student's supervisor and approved by the Academic Standing Committee.

29.11.5.7 Doctor of Philosophy (Ph.D.); Earth and Planetary Sciences
Highly qualified B.Sc. graduates may be admitted directly to the Ph.D. 1 year. Students with the M.Sc. degree are normally admitted to the Ph.D. 2 year.

Students are required to take four graduate-level courses (12 credits) in the Ph.D. 1 year, and two courses (6 credits) plus a comprehensive oral examination in the Ph.D. 2 year.

Thesis
A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must show familiarity with previous work in the field and must demonstrate ability to plan and carry out research, organize results, and defend the approach and conclusions in a scholarly manner.
The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrate how the research advances knowledge in the field. Finally, the thesis must be written in compliance with norms for academic and scholarly expression and for publication in the public domain.

Required Courses
EPSC 700 (0) Preliminary Doctoral Examination

Complementary Courses
Two to six courses (6 to 18 credits) approved at the 500, 600, or 700 level selected in consultation with the student's supervisor and approved by the Academic Standing Committee.

Attach extra page(s) as needed
8.0 Consultation with Related Units  □ Yes  □ No  Financial Consult  □ Yes  □ No

Attach list of consultations

9. Approvals

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<th>Name</th>
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Submitted by

Name    Phone    Email    Submission Date

To be completed by ARR:

CIP Code

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